

FIG.1

The block diagram illustrates the system architecture with the following components and their interconnections:

- Barcode Scan Input Device (11)**: Connected to the **A/D with sensor Timing Generator (32)** and the **Micro Processor (31)**.
- A/D with sensor Timing Generator (32)**: Connected to the **Micro Processor (31)** and the **Infra transmitter (option) (42)**.
- Infra transmitter (option) (42)**: Connected to the **Micro Processor (31)** and the **LCD Display (23)**.
- LCD Display (23)**: Connected to the **Micro Processor (31)** and the **LED (13)**.
- LED (13)**: Connected to the **Micro Processor (31)** and the **Buzzer (25)**.
- Buzzer (25)**: Connected to the **Micro Processor (31)** and the **Switch Circuit For Output (31)**.
- Switch Circuit For Output (31)**: Connected to the **Micro Processor (31)**, the **Switch (25)**, the **Mobile Phone Output Interface (21)**, and the **USB output Interface (22)**.
- Switch (25)**: Connected to the **Switch Circuit For Output (31)** and the **DC/DC Circuit (26)**.
- DC/DC Circuit (26)**: Connected to the **Switch (25)** and the **3V Battery (27)**.
- 3V Battery (27)**: Provides power to the **DC/DC Circuit (26)**.
- Mobile Phone Output Interface (21)**: Connected to the **Switch Circuit For Output (31)** and the **I2C Memory (32)**.
- USB output Interface (22)**: Connected to the **Switch Circuit For Output (31)** and the **I2C Memory (32)**.
- I2C Memory (32)**: Connected to the **Micro Processor (31)** and the **3x4 Key pad (24)**.
- 3x4 Key pad (24)**: Connected to the **Micro Processor (31)**.
- Track Ball Device (option) (41)**: Connected to the **Micro Processor (31)** and the **A/D with sensor Timing Generator (32)**.

||                      |   |   |

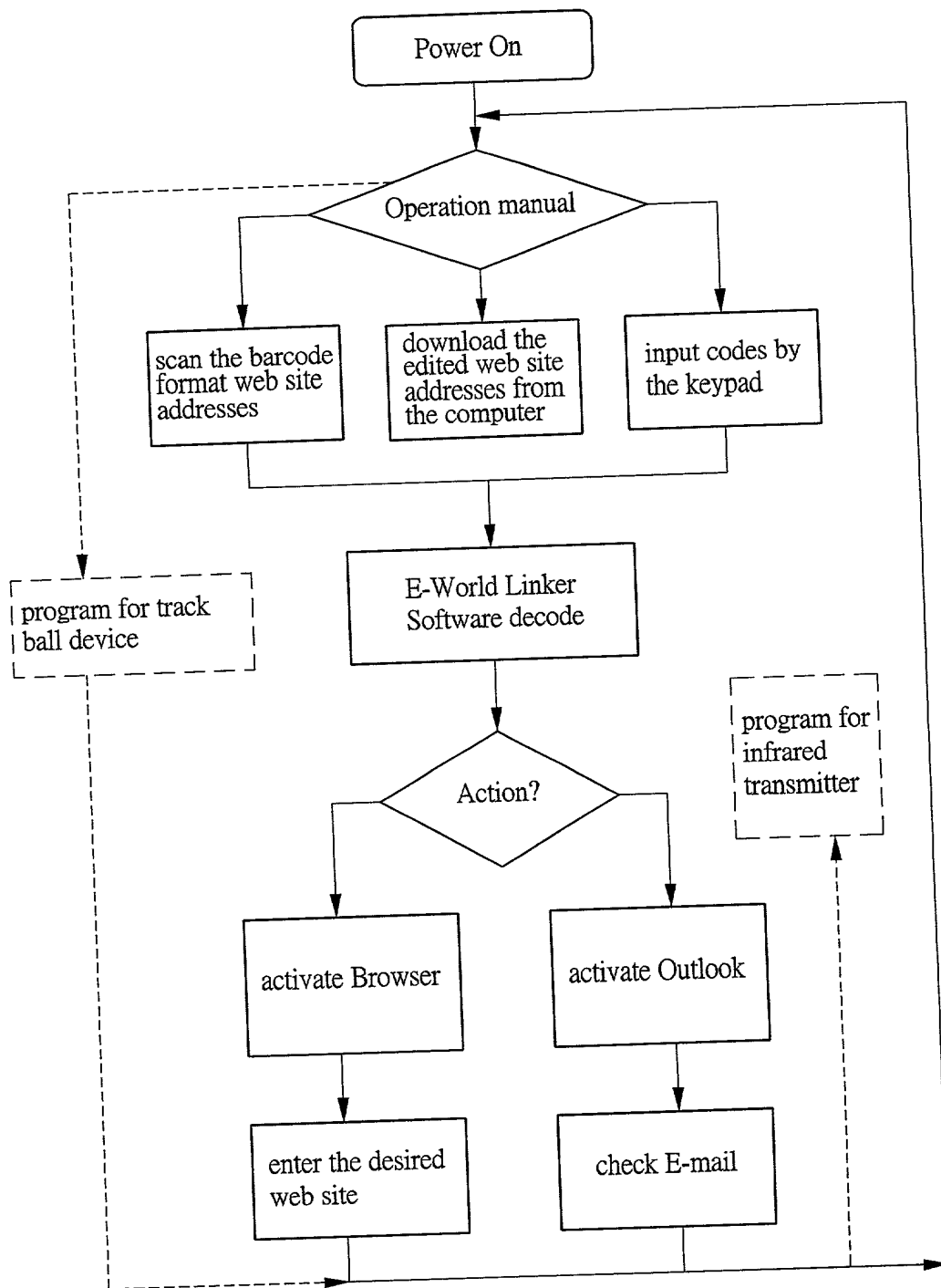


FIG.3